

NIEHS Program Analysis Branch

What is our role in communicating research results?



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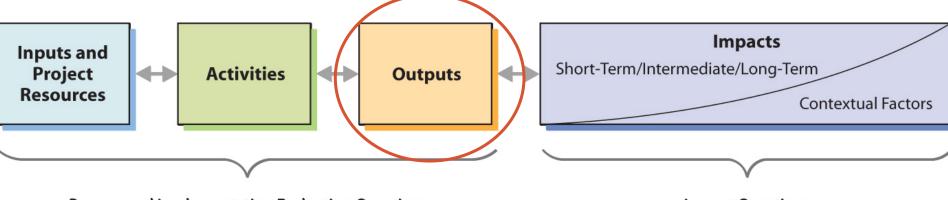
Program Analysis Branch Mission

- Evaluate portfolios and programs;
- Develop methodologies and data structures to support analyses of scientific and public health impact;
- Identify emerging areas for program development; and
- Communicate high impact science and public health relevance of extramural research
 - in support of
- Priority setting, decision making, and strategic planning





How do we identify research impacts?



Process and Implementation Evaluation Questions

Impact Questions

Logic Model – organized, project specific, informs metrics

- Inputs resources available
- Activities actions that use available resources
- Outputs direct products of activities
- Impacts benefits or changes resulting from activities, outputs



Building Blocks to Measuring Impact

Special Data Collection

Progress Reports





Building Block: Publications

- All publications should cite your grant number
- Best format: R01 ES 123456
- SPIRES is a tool that automatically links publications to NIH grants
- Part of the NIH wide database of grants
- Critical that the links be automated... we can't look to progress reports for publications





Recent Review of Core Center Publications

- Identified publications cited in 2009 progress reports (n=10)
- Looked for each publication in SPIRES and PubMed
- 95% of the publications in progress reports are in PubMed
- 33% of the publications are in SPIRES (5-95%)
- No change in average citation rate since 2000





Improving grant/publication links

New Tools, such as "MyBibliography" from NLM, allow Pl's to link grants with publications retroactively

Working to identify/develop instructions for grantees



Check out My Bib Instructions at: http://www.ncbi.nlm.nih.gov/books/NBK53595/

Things may improve with Federal Wide Progress Reporting (RRPR) – coming soon





Progress reports = 2nd building block

- NIEHS uses Progress Reports
 - Research changes when you "hit the ground"
 - New technologies, leverages work from others, etc.
 - Unanticipated findings
 - New tool: High Impacts Tracking System

Progress Reports





High Impacts Tracking System (HITS)



- Goals
 - Leverage existing IMPAC II information that has not been searchable
 - Progress reports
 - Program officer notes (Type 5 review)
 - Identify scientific advances (content of publications)
 - Apply specific "codes" for various topics
 - Develop robust infrastructure for tracking impacts
 - Complement existing tools







HITS Codes (Examples)

- Grant outputs/impacts
 - Animal models
 - Biomarkers
 - Curricula/guidelines
 - Databases/Software

- Policy/Regulations
- Sensors
- Scientific findings

- Dissemination information
 - ARRA Reports
 - "BRAIN" database

- NIEHS Paper of the month
- Press Release



Specialized data collection = 3rd Building Block

- PI/Program Officer surveys
- End user surveys
- Trainees: CareerTrac System

Special Data
Collection

Progress Reports





Tool Development

 Systematic data collection to improve strategic planning and decision making
 High Impacts Tracking System

- Examples:
 - High Impacts Tracking System
 - CareerTrac
 - Partnerships for Environmental Public Health Evaluation Metrics Manual











CareerTrac Trainee Tracking

- Partnership with Fogarty International Center (10+ years in development)
- Goals
 - Provide a structured database that captures trainee <u>outcomes</u>: Where are they now??
 - Improve access to existing data (T32 tables)
 - Scalable infrastructure
- Current "tenants"
 - FIC/NCI D43, R25 Grantees (N=5000+)
 - NIEHS T32 (N= 5000+)
 - NIEHS Superfund Trainees (N=1000+)





Evaluation Metrics Manual

- Public health, outreach programs may have impacts that don't appear in peer reviewed publications
- Themes:
 - Partnerships
 - Leveraging
 - Products and Dissemination
 - Education and Training
 - Capacity Building
- Metrics driven from goal-based logic models
 - Activities, Outputs, Impacts



http://www.niehs.nih.gov/pephmetrics



What do we do with the results?

- Congressional Justification, Inquiries, Testimony
- Presentations by Dr. Birnbaum and Senior NIEHS Staff (SOT, Council, Town Hall)
- Requests from the Communications Office



- Extramural Papers of the Month http://www.niehs.nih.gov/news/newsletter/
- Program evaluations → Strategic Planning for Funding Announcement Opportunities





Take home messages

Accountability = the new reality

 Need to track products before we can measure impacts

- Cite your grant number
- Use the NIH Commons to update missed links
- Tell us why your work is important in your progress reports (plain language)
- Check out the PEPH Metrics Manual







Questions?



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